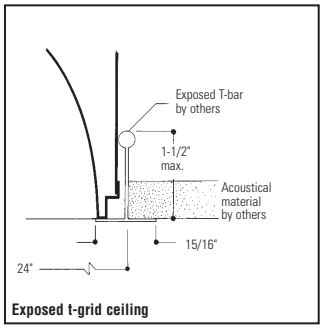
Mini-Beam HP 2'x4' Recessed Fluorescent **MBS2GHP228WA**

Direct/Indirect, Static, 2 Lamp, Linear T5, 28 Watt

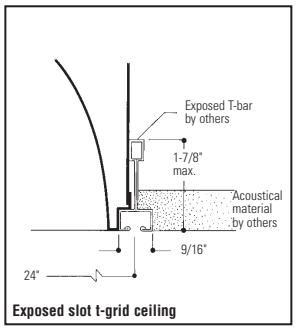
Features

- Can provide 52.4 maintained footcandles of balanced brightness illumination at only 0.69 watts per square foot.
- 90.7% efficient (2 lamp, 28 watt).
- Watts per square foot are 46% below LEED base level.
- Direct/indirect appearance with soft contoured interior.
- Four inch wide prismatic lens.
- Only 5-1/2" deep.
- Same fixture fits both G and T ceiling types.
- Fits flush to face of slot grid (T) ceiling types.
- Lamp shield hinges from either side.
- Hinged external ballast housing compartment.
- Can be continuous row mounted.
- Wiring access plate standard.
- 4 hold-down clips standard.
- Housing is 20 gauge steel, meets NYC Code requirements.

Mounting Methods

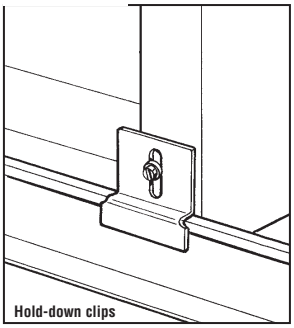


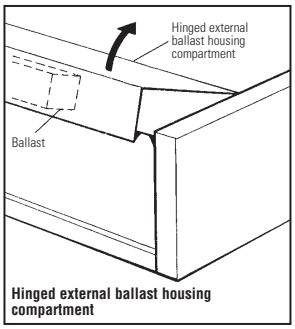
Exposed t-grid ceiling



Exposed slot t-grid ceiling

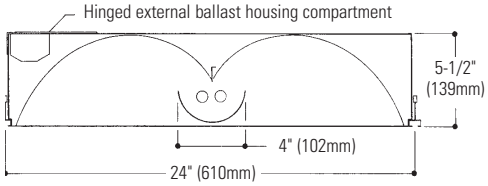
Features

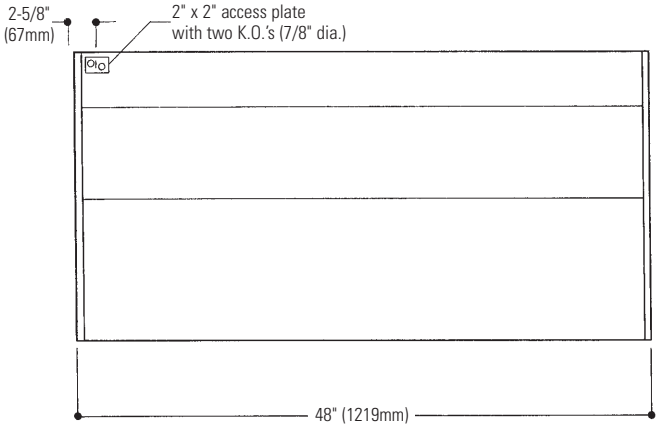

Hold-down clips



Hinged external ballast housing compartment

Dimensions





Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Volts/Ballast:	

Lightolier a Genlyte company www.lightolier.com
Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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LIGHTOLIER®

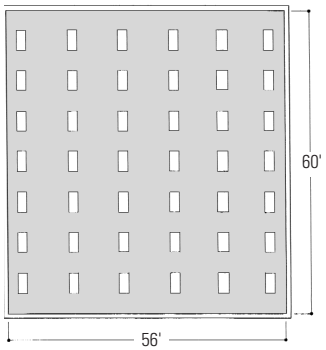
Model No. MBS2GHP228120WA

LER = FP - 75.4 IW - 55.4 BF - 0.93
Comparative yearly lighting energy cost per 1000 lumens = $3.18
Report Number: G2005263
Catalog Number: MBS2GHP228120WA
Lamp: FP28/835
Luminaire: MBS with prismatic lens
Ballast: WA Energy Smart
Report is based on 2750 lumens per lamp.
Efficiency: 90.7%
CIE Type-Direct-Indirect

Plane:	0-Deg.	90-Deg.
Spacing Criteria:	1.3	1.4
Shielding Angles:	90	90
Plane:	0-Deg.	90-Deg.
Luminous Length:	46.920	22.920

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1458	1458	1458	
5	1446	1471	1490	141
15	1394	1504	1565	422
25	1299	1471	1522	665
35	1164	1350	1376	821
45	989	1160	1245	882
55	776	933	1047	829
65	522	673	779	660
75	261	446	530	441
85	51	131	142	128
90	0	0	0	



Fixture: MBS2GHP228120WA
Quantity: 6 Rows of 7 Fixtures
Efficiency: 90.7%
Room Size: 60' x 56' x 9'
Reflectance: 80/50/20
Lumens: T5 Lamp: 2750
Ballast Factor: 0.93
Average Maint. fc: 52.4
Watts/Square Foot: 0.69

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC		80			50			30		
RW	70	50	30	50	30	10	50	30	10
1	98	93	89	87	84	81	84	81	79
2	89	81	74	76	70	66	73	68	65
3	80	70	62	66	60	55	64	58	54
4	73	62	54	58	52	46	56	50	46
5	67	55	47	52	45	40	50	44	39
6	62	49	41	47	40	35	45	39	34
7	57	45	36	43	35	30	41	35	30
8	53	41	33	39	32	27	38	31	27
9	50	37	30	36	29	24	35	29	24
10	47	34	27	33	26	22	32	26	22

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	2000.	2345.	2517.
55	1934.	2325.	2610.
65	1766.	2277.	2635.
75	1442.	2464.	2928.
85	837.	2149.	2329.

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1229	22.3	24.6
0- 40	2050	37.3	41.1
0- 60	3760	68.4	75.4
0- 90	4990	90.7	100.0
90-180	0	0.0	0.0
0-180	4990	90.7	100.0

INPUT WATT	COST/KWH .10¢/1000	HOURS BURNED PER YEAR	YEARLY COST
148	.000	6570	$97.24
56	.000	6570	$36.19
	MBS Savings per fixture		$60.45

MBS vs Typical troffer with Magnetic ballast and 3 T12 34 watt lamps.

Ordering Information

Explanation of Catalog Number. Example: MBS2GHP228120WA

	S	2	G	HP		28		WA	
Mini-Beam Direct/Indirect Recessed	**Body Style:** **S** = Static	**Fixture Width**	**Ceiling Type:** Fits both Standard Grid and Slot Grid	**High Performance Prismatic Lens**	**Lamp Quantity** **1**=1 Lamp **2**=2 Lamp	**Lamp Quantity:** (By others) **28** = 28 Watt T5	**Voltage:** 120 or 277 **UNV**=120-277	**Ballast Type: Energy Smart** **WA** = Linear T5 Instant Start Less than 10 THD 56 Input Watts 0.93 Ballast Factor	**Options:** Add appropriate suffix to catalog no, ie: (GLR)

MB Standard Mini-Beam

M3 For NYC Code – Local 3 Manufactured

Other Ballast Options:

	<20THD	<10THD
1-2 Lamp 28W Elec. T5	–	**PI** †
1-2 Lamp 28W Elec. T5	–	**PG** ††

†Instant Start (120V or 277V only)
††Program Rapid Start (**UNV** only)

Options/Accessories

Fusing: Internal fast-blow fusing. Suffix: **GLR**.
Internal slow-blow fusing. Suffix: **GMF**.
Electrical/Wiring Options: Consult factory.

Specifications

Performance: In an installation of 2 lamps 28W luminaires in a room cavity of 1, with reflectance of 80% ceiling, 50% walls, 20% floor, the C.U. shall not be less than 0.93. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 75.4%.
Materials: Housing is die-formed 20 gauge steel.
Finish: Chassis exterior–baked white acrylic enamel. **Reflector**–baked flat white acrylic enamel, minimum 86% reflectance. Phosphate undercoating.
Lamp Shield–Prismatic virgin acrylic lens.
Electrical: Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.
Labels: I.B.E.W./UL and ULc Listed.

Job Information **Type:**

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